

Please amend the claims as follows:

1. (Currently Amended) A facing targets sputtering device for semiconductor fabrication, comprising:
  - an air-tight chamber in which an inert gas is admittable and exhaustible;
  - a pair of target plates placed at opposite ends of said air-tight chamber respectively so as to face each other and form a plasma region therebetween;
  - a pair of magnets respectively disposed adjacent to said target plates such that magnet poles of different polarities face each other across said plasma region thereby to establish a magnetic field of said plasma region between said target plates;
  - a substrate holder disposed adjacent to said plasma region, said substrate holder adapted to hold a substrate on which an alloyed thin film is to be deposited;
  - a first target power supply coupled to one of the target plates;
  - a chuck heater mounted above the wafer; and
  - a back-bias power supply coupled to the substrate holder.
2. (Original) A facing targets sputtering device according to claim 1, wherein the back-bias power supply is a DC or an AC electric power source.
3. (Canceled) ~~A facing targets sputtering device according to claim 1, further comprising a first target power supply coupled to one of the target plates.~~
4. (Currently Amended) A facing targets sputtering device according to claim 1-3, wherein the first target power supply is a DC or an AC electric power source.

5. (Original) A facing targets sputtering device according to claim 1, further comprising a second target power supply coupled to one of the remaining target plates.
6. (Original) A facing targets sputtering device according to claim 5 4, wherein the first and second target power supplies comprises DC and AC electric power sources.
7. (Original) A facing targets sputtering device according to claim 1, further comprising a robot arm to move the wafer.
8. (Original) A facing targets sputtering device according to claim 1, further comprising a magnetron coupled to the chamber.
9. (Canceled) ~~A facing targets sputtering device according to claim 1, further comprising a chuck heater mounted above the wafer.~~
10. (Previously Amended) The facing targets sputtering device of claim 1, comprising first and second targets mounted in parallel.
11. (Previously Amended) The facing targets sputtering device of claim 10, further comprising magnets positioned between the first and second targets.

12. (Previously Amended) The facing targets sputtering device of claim 10, further comprising a power supply coupled to the magnets and the targets.

13. (Currently Amended) The facing targets sputtering device of claim 10, wherein the substrate is positioned perpendicularly to the planes of the targets.

14. (Canceled) ~~The facing targets sputtering device of claim 13, further comprising a substrate holder to secure the substrate.~~

15. (Currently Amended) The facing targets sputtering device of claim 1, wherein the substrate comprises a semiconductor layer.

16. (Currently Amended) A method for sputtering a thin film onto a substrate, comprising:  
providing at least one target and a substrate having a film-forming surface portion and a back portion;

creating a magnetic field so that the film-forming surface portion is placed in the magnetic field with the magnetic field induced normal to the substrate surface portion

back-biasing the back portion of the substrate;

swinging the wafer using a pendulum;

providing a pair of said targets opposed to each other where the substrate is disposed between the targets; and

sputtering material onto the film-forming surface portion.

17. (Canceled) A method as in claim 16 including providing a pair of said targets opposed to each other where the substrate is disposed between the targets.
18. (Canceled) A method as in claim 16, further comprising swinging the wafer using a pendulum.
19. (Original) A method as in claim 16, further comprising supporting a chuck from underneath rather than side-way.
20. (Original) A method as in claim 16, further comprising providing a plurality of sources to deposit materials onto the substrate.